

## SUNCOM 2.4METER ANTENNA

### Features

- Meets or exceeds ITU-RS 580-5 and INTELSAT requirements
- High G/T, excellent pattern characteristics
- Self-aligning aluminum reflector, no field alignment
- Factory feed system testing
- All of steel parts to be processed by hot dipped zinc
- 2-port or 4-port Linear/Circular Feed Field changeable feed system, switchable circular to linear C-band
- Foundation hardware kit included
  
- Air or ocean transport packing



2.4m antenna installed in Portugal

### Options

- Specialized feed systems (e.g extended ,multi-band, Ka Band, DBS band )
- Antenna control system with tracking (Steptrack, Program Tracking and Inclined Orbit Tracking)
- Reflector and feed deicing systems
- ODU Support Kits
- Lightning Rod Kit
- Grounding Kit
- Cable-Mounting Kit
- Turnkey installation and testing
- Non-penetrating mount
- High wind configuration
- Extended Az travel

**Notice: For any specialized request please contact Suncom sales office**

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### ELECTRICAL SPECIFICATION

Type	240FC		240FK	
	C-Band		Ku-Band	
Operating Frequency, GHz	Receive	Transmit	Receive	Transmit
		3.4~4.2	5.85~6.725	10.95~12.75
Gain, Mid-band, dBi	38	41.5	47.8	49.1
Polarization	Linear/ Circular		Linear	
XPD (on Axis), dB	35	35	35	35
XPD across 1dB Beam Width, dB	33	33	33	33
Axial Ratio (Circular-Polarized)	1.30	1.09		
VSWR	1.25	1.25	1.25	1.25
Antenna Noise Temperature				
10° Elevation	32°K		48°K	
30° Elevation	24°K		38°K	
50° Elevation	20°K		34°K	
-3dB Beam Width, Mid-band	2°	1.38°	0.67°	0.59°
Typical G/T ( El>10° )	20dB/K ( 30° LNA )		27.1dB/K ( 70° LNA )	
Tx. Power Capability, KW		5		2
Feed Interface	CPR-229G	CPR-137G	WR-75	WR-75
Feed Insertion Loss	0.2	0.2	0.25	0.2
Isolation, Tx to Rx, dB	90		85	
First Sidelobe	-14		-14	
90% Peaks under Following Envelop	29-25log $\theta$ ( $1^\circ \leq \theta < 20^\circ$ )		29-25log $\theta$ ( $1^\circ \leq \theta < 20^\circ$ )	

### MECHANICAL SPECIFICATION

Antenna Diameter	2.4 m
Antenna Type	Ring Focus
Mount Type	El. over Az.
Surface Accuracy (RMS)	≤ 0.4mm
Antenna Pointing Range	
Azimuth	0°~360°, ±10°(Continuous)
Elevation	0°~90°(Continuous)
Polarization	360°(Continuous)
Drive Mode	Manual or Motorized

### ENVIRONMENTAL SPECIFICATION

Operational Wind	72km/h Gusting to 97km/h
Survival Wind	216km/h
Temperature	-40°C ~ + 60°C
Relative Humidity	100%
Solar Radiation	1135Kcal/ h/ m <sup>2</sup>
Seismic (Survival)	0.3g (H), 0.15g (V)
Ice Loading	13mm Operational; 25mm Survival